***COMPLETE IN NOTEBOOK! SHOW ALL WORK IN NOTEBOOK!***

HW72: Intro to Polygons

**Geometry**

Due: Tues, March 21st

**Part I**

|  |  |
| --- | --- |
| YWBAT determine the sum of the interior angles of a polygon. | |
| **Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 10.22.42 PM.pngMacintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 10.23.43 PM.png** | |
| 2. For each polygon, compare the number of triangles to the number of sides. Explain the pattern you see. | 3. How does the number of triangles created by the diagonals in each polygon determine the sum of the interior angle measures in a polygon? |
| 4. What is the rule for determining the sum of the interior angles? Write this in the section of your guided notes titled: “Interior Angle Sum” | |
| 5. Find the sum of the measures of the interior angles of a 23-gon. Show your work. | 6. Find the number of sides of a polygon whose interior angles add up to 3240°. |

.



